

Abstract

Method and device for operating a gas turbine with a fossil-fuel fired combustion chamber

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A method according to the invention or a corresponding device (1) provides for dividing exhaust gas (9) exiting the gas turbine into a first (11) and a second partial stream (13), for mixing the first partial stream (11) with combustion air (15), and for channeling the resulting mixture (17) to the combustion chamber (5) and the second partial stream (13) to a carbon dioxide precipitation plant (21).

In an advantageous embodiment the exhaust gas (9) exiting the gas turbine (3) is previously used to generate process steam (31) for a steam turbine (33) (gas and steam power station) then cooled before the exhaust gas (9) is divided into said partial streams (11,13). Water (29) precipitating during cooling is removed.

20 FIG